A

PROJECT REPORT ON

"PARE-TECH WEBSITE"

FOR THE DIPLOMA IN COMPUTER ENGINEERING

SUBMITTED BY

RUTUJA SANTOSH VIBHUTE

SATISH RAMESH BADE

VAISHNAVI KIRANRO DESHMUKH

UNDER THE GUIDANCE OF

Mr.V.N.SAHANE

DEPARTMENT OF COMPUTER ENGINEERING

CSMSS COLLEGE OF POLYTECHNIC, AURANGABAD

MAHARASHTRA, INDIA

AND

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

ACADEMIC YEAR 2023-24

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

COLLEGE OF POLYTECHNIC

KANCHANWADI, PAITHANROAD, AURANGABAD

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COMPUTER ENGINEERING THIRD YEAR

SUBMITTED TO

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YEAR 2023-2024

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

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CERTIFICATE

This is to certify that **MS. RUTUJA SANTOSH VIBHUTE, Mr. SATISH RAMESH BADE, MS.VAISHNAVI RAMESHRO DESHMUKH** Form (Institute) **CSMSS College of Polytechnic** having Enrolment No.**2111520130, 211152035, 2211520383** Has Completed Project Planning Report having title **"PARE-TECH Website"** individually in a group consisting of 3 Candidates under the guidance of the faculty guide.

Name & Signature of Guide: _____

Name & Signature of HOD:_____

ACKNOWLEDGEMENT

It gives us a great pleasure to submit this project report on “Pare-Tech Website”. We would like to express our thanks to the people who have helped us most throughout our project. We would like to express our sincere thanks to the principal of CSMSS College of Polytechnic Dr. Ganesh .B. Dongre for being always with us as a motivator. We are thankful to the H.O.D. of Computer Engineering Department, Mrs.R.S.Pophale for her kind support. We are grateful to our Project Guide Mr.V.N.Sahane for nonstop support and continuous motivation for the project. His help made us possible to complete our project with all accurate information.

A special thanks of our goes to our friends who helped us in completing the project, where they all exchanged their own interesting ideas. We wish to thanks our parents for their personal support or attention who inspired us to go our own way. Finally, we would like to thank God who made all things possible for us till the end.

1. **RUTUJA SANTOSH VIBHUTE**
2. **SATISH RAMESH BADE**
3. **VAISHNAVI KIRANRO DESHMUKH**

CONTENT
ABSTRACT

The Pare-Tech website is a crucial tool in the modern educational landscape, aimed at streamlining and enhancing various administrative and academic processes within educational institutions. This abstract provides an overview of the fundamental components and objectives of a comprehensive Pare-Tech website .

The primary goal of the Pare-Tech website is to efficiently manage student data, academic records, and administrative tasks in educational institutions, such as schools, colleges, and universities. The main goal is to envolved parent inderecly in system.This system integrates various modules, including student score, attendance tracking, grading, scheduling,assiemts,completion, and reporting, to create a centralized and organized platform for educators and recored inderectly checked by parents,so the student get serious about there acadmics.

Key Features and Functionalities:

1. Student score:
2. Attendance Tracking:
3. Grading and Assessment:.
4. Scheduling and Timetables:
5. Reporting and Analytics:
6. Administrative Tasks;
7. Staff information
8. Syllabus cover
9. Homework

In conclusion, a Pare-Tech website plays a pivotal role in modern education, enhancing efficiency, transparency, and communication while empowering educators and administrators to focus on their primary mission of nurturing student growth and success. Its features and functionalities are tailored to meet the unique needs of educational institutions and support the entire student lifecycle.

CONTENT

1. INTRODUCTION

In today's fast-paced and technologically driven world, managing and monitoring the academic progress of students is a task of paramount importance. Educational institutions, parents, and students themselves all share a vested interest in ensuring that student data is not only accurately recorded but also accessible and comprehensible. This has given rise to the concept of a "pare-tech website " , which bridges the gap between educational institutions and parents, facilitating effective communication and enhancing transparency in a student's academic journey.

The primary objective of pare-tech website is to create a collaborative platform that empowers parents to actively participate in their child's educational experience while providing educational institutions with a streamlined approach to managing student information. This innovative system offers several key features and functionalities that can transform the way student data is handled and monitored.

Key Features and Functionalities:

1. **Real-time Access:** Parents are granted access to their child's academic records, attendance, and performance data in real-time. This instant access allows for proactive involvement in a student's educational journey.
2. **Academic Progress Tracking:** The system provides a comprehensive overview of a student's grades, assessments, and progress, enabling parents to identify areas of improvement and celebrate achievements.
3. **Communication Hub:** It serves as a communication hub, facilitating direct interaction between parents, teachers, and school administrators, ensuring that concerns or queries can be addressed promptly.

4. **Attendance Monitoring:** Parents can track their child's attendance, making it easier to identify patterns of absenteeism and address any potential issues promptly.
5. **Event Notifications:** The system sends automatic notifications about important school events, deadlines, and meetings, keeping parents informed and engaged.
6. **Secure Data Handling:** Stringent security measures are in place to protect sensitive student information, ensuring data privacy and compliance with regulations.
7. **Feedback Loop:** Parents can provide feedback or input regarding their child's educational experience, fostering a collaborative environment for improvement.

In conclusion, the concept of a "pare-tech website" represents a significant step towards greater transparency, accountability, and collaboration in education. This system leverages technology to bring parents into the educational process, allowing them to actively support and monitor their child's academic journey, ultimately leading to improved outcomes and stronger connections between educational institutions and families.

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1.1 Objective of this project

1. **Enhanced Parent-Teacher Communication** .
2. **Improved Parental Engagement** .
3. **Real-time Access to Student Information**.
4. **Attendance Monitoring**
5. **Notifications and Alerts**

1.2 System Testing

1. **User Authentication**.
2. **Communication Features**.
3. **Attendance Tracking**
4. **Student Data Access**

1.3 Features of pare-tech website

1. **Parent Dashboard**
2. **Real-time Student Data**
3. **Attendance Tracking:**
4. **Grading and Assessment**
5. **Event Calendar:**

1.1 Action plan

Sr. No.	Details Of Activity	Planned Start Date	Planned End Date	Name Of Responsible Team Members
1.	Designing Of GUI Of the System	24/07/2022	07/08/2022	All Team Members
2.	Creation Of Database	14/08/2022	28/08/2022	All Team Members
3.	Implementation	05/09/2022	19/09/2022	All Team Members
4.	Testing	26/09/2022	09/10/2022	All Team Members
5.	Project Report Writing	16/10/2022	30/10/2022	All Team Members
6.	Project Presentation	07/11/2022	21/11/2022	All Team Members
7.	Project Demo	**As per notice**		All Team Members
8.	Defiance			All Team Members

2.LITERATURE SURVEY

1. Parental Involvement in Student Education: Numerous studies emphasize the positive impact of parental involvement on student performance (Henderson & Mapp, 2002). Engaging parents through technology enhances this involvement, leading to improved student outcomes (Bachman, 2018).

2. Parent-Teacher Communication: Research by Epstein (2011) highlights the significance of effective parent-teacher communication. Systems facilitating direct and real-time communication ensure timely feedback and collaborative problem-solving.

3. Student Information Systems (SIS): Existing literature explores the evolution of Student Information Systems, emphasizing the need for user-friendly interfaces and data security (Kerski, 2016). Modern SIS focuses on accessibility, ease of use, and integration capabilities (Açıkgöz & Çağıltay, 2019).

4. Data Security and Privacy: Security concerns in educational systems are a focal point (Liu & Ma, 2019). Ensuring compliance with data protection laws (Kearns, 2017) is crucial to build trust and maintain the privacy of student information.

5. Mobile Technology in Education: Studies demonstrate the growing role of mobile technology in education (Hwang & Wu, 2014). Mobile applications enhance parental engagement by providing convenient access to student data (Zhang & Duke, 2018).

6. Parental Feedback Systems: Research on feedback mechanisms in educational systems underlines the importance of parent feedback for continuous improvement (Baird & Fisher, 2005). Systems allowing parents to provide feedback yield valuable insights into educational processes.

7. User Experience and Interface Design: Usability studies (Al-Busaidi & Al-Shihi, 2015) emphasize the significance of intuitive interfaces. User experience design principles contribute to the effectiveness of parent-facing educational platforms (Lallemand et al., 2015).

8. Impact of Technology on Student Learning: Studies by Tamim et al. (2011) illustrate the positive influence of technology on student learning outcomes. Integrating technology into parental involvement initiatives enhances the overall educational experience.

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1.1 DFD Diagram:

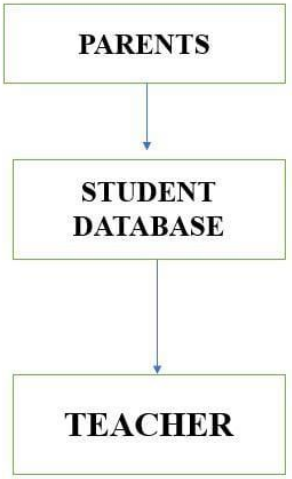


Fig. 0.level DFD digram

2.1 Overview of existing system

A Pare-Tech website Checked by Parent is a technology-driven platform designed to enhance parental involvement in their child's education while providing convenient access to student data. This system aims to improve communication and collaboration between educational institutions and parents, ensuring that parents have real-time access to their child's academic information, attendance records, and relevant school communications.

Key Components:

1. **User Roles:**
   - **Parents:** Access student data, communicate with teachers, and participate in school-related activities.
   - **Teachers:** Manage student information, input grades, communicate with parents, and schedule meetings.
   - **Students:** View their own academic records, assignments, and other relevant information.
   - **Administrators:** Oversee the system, manage user accounts, and ensure system security.

2.Authentication and Authorization:

- Secure login mechanisms to verify the identity of users (parents, teachers, students).
- Role-based access control to ensure that each user can access only the relevant information and features.

1. **Student Information Management:**
   - Centralized database to store student information, including personal details, academic records, attendance, and extracurricular activities.
   - Ability to update and manage student records in real time.

2. **Parental Access and Communication:**
    - Parent portals providing real-time access to their child's academic progress, attendance, and upcoming events.
    - Messaging system allowing parents to communicate directly with teachers, administrators, or other parents.
    - Notifications and alerts for attendance issues, upcoming exams, school events, and other important updates.
3. **Teacher Features:**
    - Gradebook functionality to input and manage student grades and assessments.
    - Communication tools to interact with both parents and students.
    - Scheduling capabilities for parent-teacher conferences and meetings.
4. **Student Self-Service:**
    - Access to personal academic records, assignments, and schedules.
    - Tools to track their own progress and set academic goals.
5. **Data Security and Privacy:**
    - Robust security measures to protect sensitive student information.
    - Compliance with data protection regulations (such as GDPR or FERPA) to ensure privacy and legal compliance.
6. **Reporting and Analytics:**
    - Generation of detailed reports on student performance, attendance trends, and other relevant metrics.
    - Data analytics to identify patterns, assess student progress, and support data-driven decision-making.
7. **Feedback Mechanisms:**
    - Features allowing parents to provide feedback on the system and their child's educational experience.
    - Surveys or polls to gather input from parents and teachers for continuous improvement.

2.3 Overview of proposed system

2.3.1 Flow-Chart:

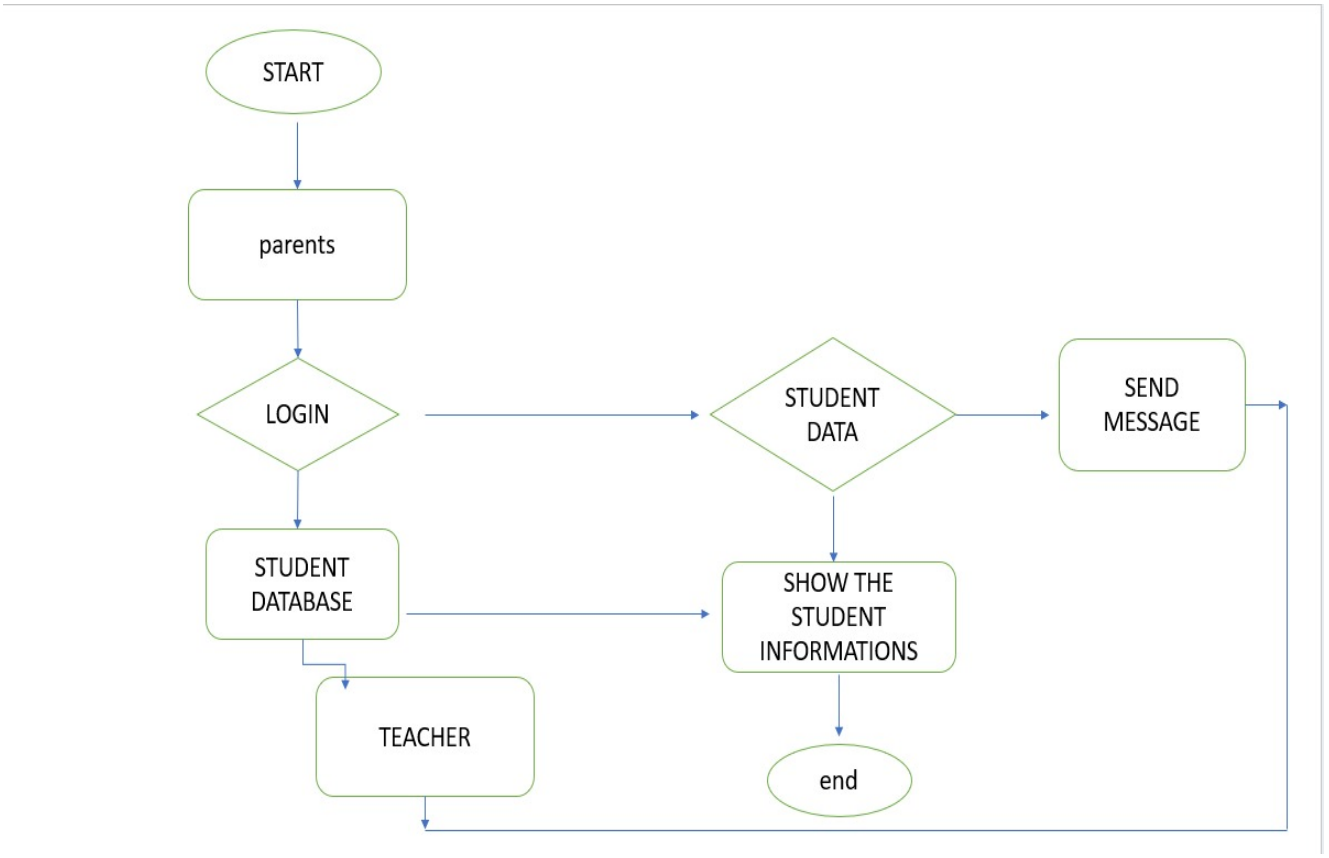


Fig: 2.1

2.3.2. Use Case Diagram:

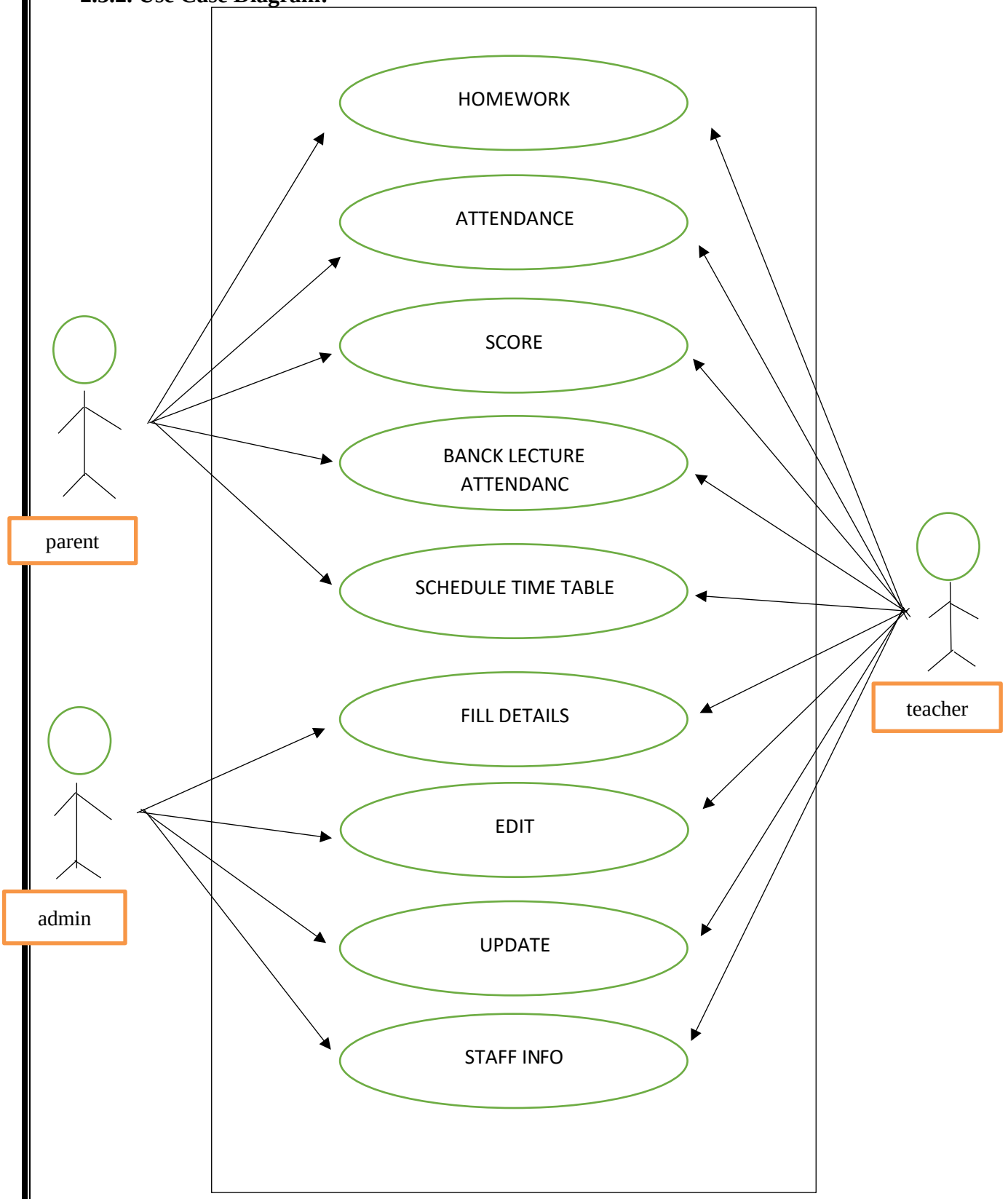


Fig. 2.2

2.4 User Module(parent):

Access student data, communicate with teachers, and participate in school-related activities.

2.5 Admin Module(teacher):

Manage student information, input grades, communicate with parents, and schedule meetings..

2. SCOPE OF THE PROJECT

3.1 Scope

The scope of pare-tech website Checked by Parent encompasses the range of functionalities and objectives that the system aims to achieve. It defines what the system will and will not include. The scope of such a system should consider the needs of educational institutions, parents, teachers, and students.

Advantages:

1. **Enhanced Parental Involvement**
2. **Improved Communication**
3. **Convenience**
4. **Transparency**
5. **Goal Setting and Tracking**
6. **Data-Driven Decision-Making:**

3.2 Features

1. **User Authentication and Authorization**
2. **Student Information Management**
3. **Parental Access and Communication**
4. **Teacher Features**.

1. METHODOLOGY

1.1 Main module and sub modules:

1. User Module
2. Admin Module
3. Registration of Table

1.2 Planned Resources

1. Compatible computer system.
2. Programming language- HTML, CSS, JAVASCRIPT.
3. Database- MySQL.

1.2.1 HTML:

1. HTML stands for Hyper Text Markup Language.
2. HTML is the standard markup language for Web pages.
3. HTML elements are the building blocks of HTML pages.
4. HTML elements are represented by <> tags.

1.2.2 PHP:

1. PHP is a recursive acronym for "PHP: Hypertext Preprocessor".
2. PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.
3. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase,Informix, and Microsoft SQL Server.
4. PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time.

1.2.3 CSS:

1. CSS stands for Cascading Style Sheets.
2. CSS describes how HTML elements are to be displayed on screen, paper, or in other media.
3. CSS saves a lot of work. It can control the layout of multiple web pages all at once.
4. External stylesheets are stored in CSS files.

1.2.4 JAVASCRIPT:

1. JavaScript is a lightweight, interpreted programming language.
2. Designed for creating network-centric applications.
3. Complementary to and integrated with Java.
4. Complementary to and integrated with HTML.
5. Open and cross-platform.

1.2.5 MySQL:

MySQL is a relational database management system (RDBMS) developed by Oracle that is based on structured query language (SQL). A database is a structured collection of data. It may be anythingfrom a simple shopping list to a picture gallery or a place to hold the vast amounts of information in a corporate network.

2. DETAILS OF WORKING

2.1 Team structure

Teamwork in the workplace is an important factor for project success. Teamwork is important because it creates human energy. It amplifies the results of each member of your team such that the overall result is greater than the individual contributions made by each member.

Member Name	Work Done
1. .Rutuja Santosh Vibhute 2. Satish Ramesh bade 3. Vaishnavi Kiranrao Deshmukh	Main Project Module Designing and Coding. (Team Leading)
1. .Rutuja Santosh Vibhute 2. Satish Ramesh bade 3. Vaishnavi Kiranrao Deshmukh	Project Report Writing and Database Designing
1. .Rutuja Santosh Vibhute 2. Satish Ramesh bade 3. Vaishnavi Kiranrao Deshmukh	Project Report Writing and Testing
1. .Rutuja Santosh Vibhute 2. Satish Ramesh bade 3. Vaishnavi Kiranrao Deshmukh	Project Interface Designing
4. .Rutuja Santosh Vibhute 5. Satish Ramesh bade 1. Vaishnavi Kiranrao Deshmukh	Project Code Implementation

Above table shows the team structure of our team for developing this project. Different types of work have been done by different team member.

2.2 Development schedule and milestone

Development of the project should have been done by predefined schedule. Because Success of the projectis depending upon the planning and scheduling of various work task.

Following tasks are performed by us to complete this project:

1. Requirement Gathering
2. Feasibility Study
3. Planning
4. Estimation
5. Scheduling
6. Requirement Analysis
7. Design
8. Database Design
9. Coding
10. Testing
11. Report Writing
12. Deployment and Submission

2.2.1 Development Tools:

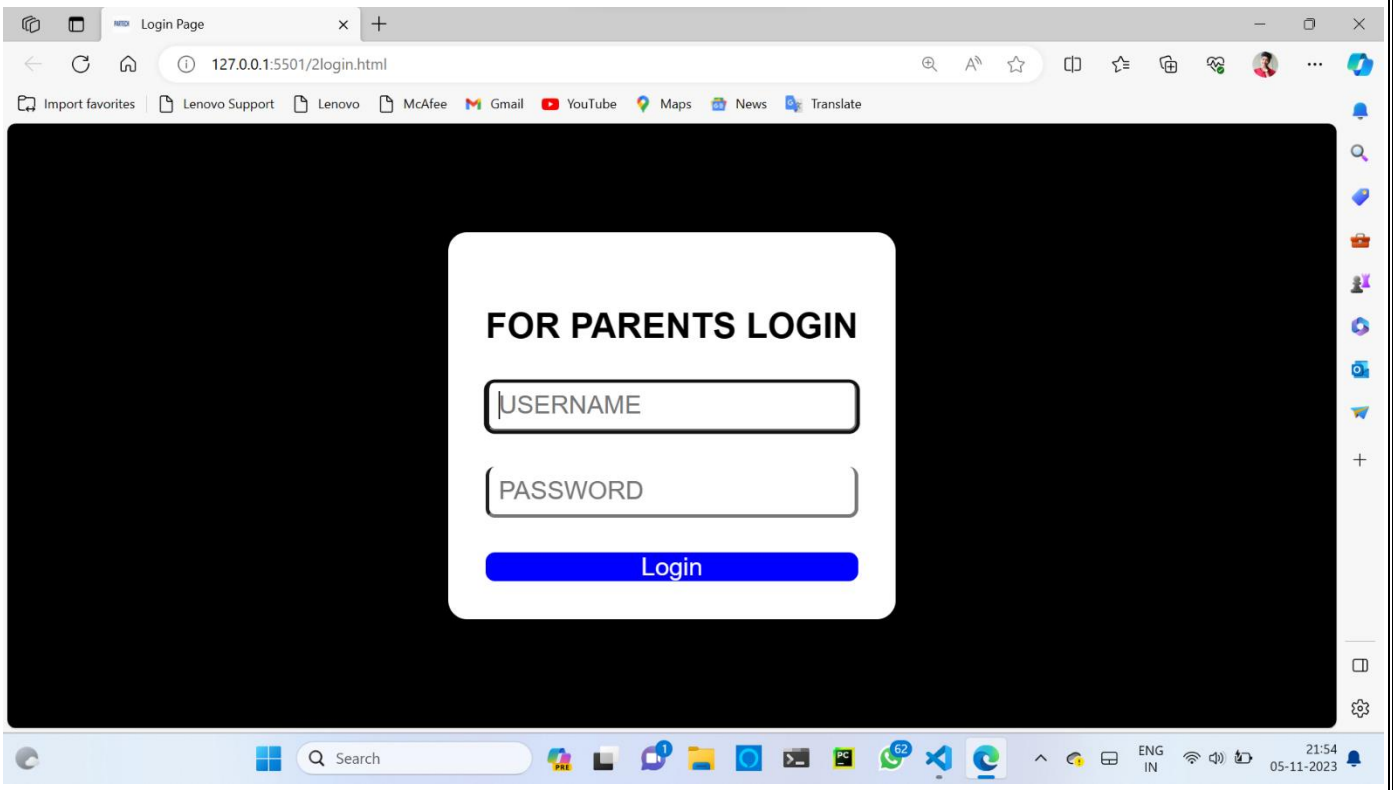
We require software and hardware for developing the project. Coding and Designing of the software is done by development tools. We used following Development tools for developing the project.

Sr. No.	Development Tool	Specification
1.	Computer System	Processor Intel Core i5, RAM 8 GB, 1TB HDD
2.	Operating System	Windows 11
3.	Microsoft word	Microsoft Office 2019
4.	Notepad++	Version 7.8.3

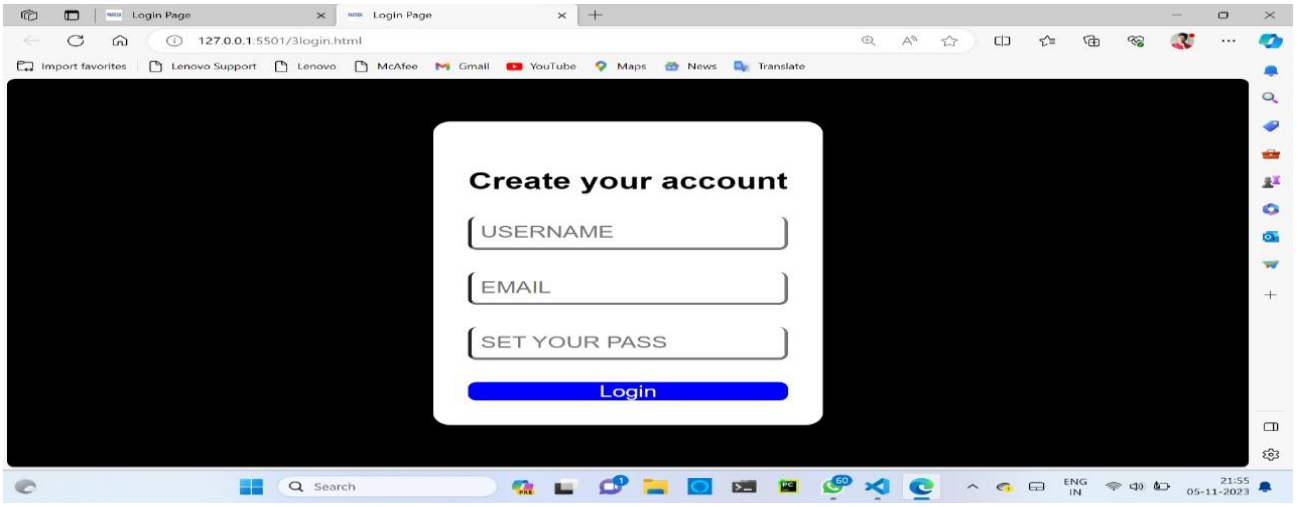
3. DETAIL OF DESIGN

3.1 Structure

3.1.1 Home:



3.1.2 Admin Login:



4. CONCLUSIONS AND FUTURE SCOPE:

7.1 Conclusion:

To the restaurant and hotel owners, this automated Digital restaurant digital menu and other facilities helps them minimize the workload. It provides the instant result. From this system manually work is reduce and increase digitalization Online restaurant website. User can find all the restaurant related information online without going to any private or public restaurant. It also includes big data processing for the storing the big database of customers. It uses to secure data and it provideefficient use of the memory.

7.2 Future scope:

A Restaurant Management System can help in running a restaurant more efficiently by keeping track of everything such as employees, inventory, and sales. Basically, an also hardware as it runs a cash register, and receipt printer, which is depending on business needs.

5. REFERENCES:

1. www.jetir.org
2. www.researchgate.net
3. www.w3schools.com
4. www.tutorialspoint.com